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(71) Applicant (for FR only): **SERVICES PETROLIERS SCHLUMBERGER** [FR/FR]; 42, rue Saint-Dominique, F-75007 Paris (FR).

(71) Applicant (for AT, AU, AZ, CO, DE, DK, ES, HR, ID, IE, IT, KP, KR, KZ, MX, NO, NZ, PH, PL, RO, RU, SK, TM, UA, ZA only): **SCHLUMBERGER TECHNOLOGY B.V.** [NL/NL]; Parkstraat 83-89, NL-2514 JG The Hague (NL).

(71) Applicant (for all designated States except AE, AT, AU, AZ, BR, CA, CG, CM, CN, CO, CZ, DE, DK, DZ, EC, EG, ES,

FR, GA, GN, GQ, GW, HR, ID, IN, IT, KP, KR, KZ, LT, MA, MX, NA, NE, NO, NZ, OM, PG, PH, PL, RO, RU, SD, SK, SY, TD, TM, TN, TR, TT, UA, VN, ZA): **SCHLUMBERGER HOLDINGS LIMITED**; P.O. Box 71, Craigmuir Chambers, Road Twon, Tortola (VG).

(71) Applicant (for CA only): **SCHLUMBERGER CANADA LIMITED** [CA/CA]; 525 - 3rd Avenue S.W., Calgary, Alberta T2P 0G4 (CA).

(71) Applicant (for CN only): **SCHLUMBERGER OVERSEAS S.A.** [PA/PA]; 8 Calle Aquillo de la Guardia, Panama City (PA).

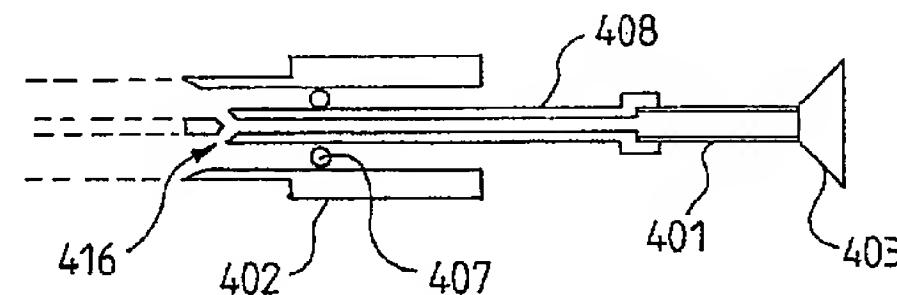
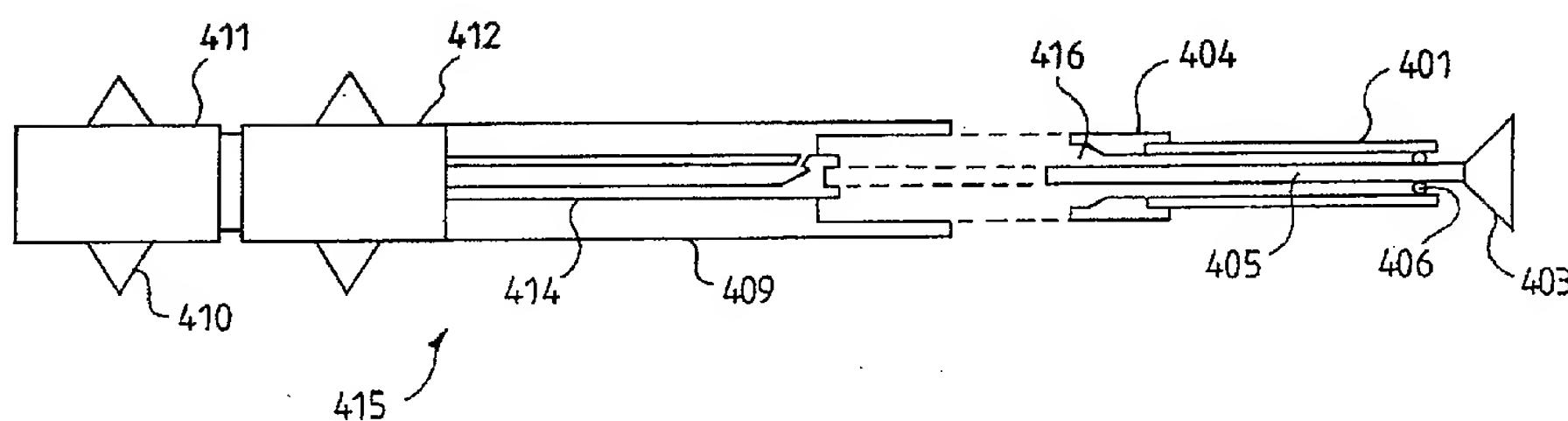
(71) Applicant (for AE, OM, SD, SY, TR only): **SCHLUMBERGER OILFIELD ASSISTANCE LIMITED**; Craigmuir Chambers, Road Town, Tortola (VG).

(71) Applicant (for BR only): **SCHLUMBERGER SURENCO S.A.** [PA/PA]; 8 Calle Aquilino de la Guarda, Panama City (PA).

(71) Applicant (for TT only): **SCHLUMBERGER SERVICES LIMITED**; P.O. Box 438, Tortola (VG).

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(54) Title: DOWNHOLE DRILLING OF A LATERAL HOLE



(57) **Abstract:** A system for drilling a lateral hole departing from a main well. The system comprises a motor assembly (415) including a motor (412) to generate a rotating torque, an axial thruster (411) to generate an axial force, a blocking system (410) to fix the motor and the axial thruster downhole. The motor assembly further includes a drive shaft (414) to transmit the rotating torque. The system further comprises a first and second connector (402, 404) for transmitting the rotating torque and the axial force from the motor assembly to a drill string assembly. The first connector is connectable to the drill string assembly so as to transmit the axial force only to the drill pipe (401), and to transmit the rotating torque to a further drive (405) shaft positioned within the drill pipe. The second connector (402) is connectable to the drill string assembly so as to transmit both the axial force and the rotating torque to the drill pipe (401).

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(71) **Applicant (for EG only): SCHLUMBERGER SEACO INC.** [PA/PA]; 8 Calle Aquilino de la Guardia, Panama City (PA).

(71) **Applicant (for CG, CM, CZ, DZ, EC, GA, GN, GQ, GW, IN, LT, MA, NA, NE, PG, TD, TN, VN only): PRAD RESEARCH AND DEVELOPMENT N.V.** [NL/NL]; De Ruyterkade 62, Willemstad, Curacao (AN).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only): ORBAN, Jacques** [FR/FR]; Etudes et Productions Schlumberger, 1 rue Henri Becquerel, F-92142 Clamart Cedex (FR). **KOTSONIS Spyro** [GR/FR]; 3, rue du Bourg, 92350 Le Plessis Robinson (FR). **ACQUAVIVA, Jo** [FR/FR]; 3, rue Yvart, F-75015 Paris (FR).

(74) **Common Representative: ETUDES & PRODUCTIONS SCHLUMBERGER;** 1 rue Henri Becquerel - BP 202, F-92142 Clamart Cedex (FR).

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